

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|---------------------|
| L4 | 1 | (US-5794835-\$).did. | USPAT | ADJ | ON | 2009/07/16 14:43 |
| L5 | 1 | L4 and (swelling or imperfection or bump or ridge or uneven or uniform or defect or hole) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/16 14:44 |
| L6 | 2 | ("2740877").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/16 14:51 |
| L7 | 1 | ("3949896").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/16 14:54 |
| S1 | 38983 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitator\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/15 17:59 |
| S2 | 964 | S1 and (plate or sheet or layer or film) same (hollow or empty) same (cylinder or tube or tubes or tubular or tubing or pipe or pipes or piping) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/15 18:01 |

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|----|------|---|---|-----|----|---------------------|
| S3 | 228 | S2 and (protrusions or fingers or jut or bulge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/15 18:05 |
| S4 | 3355 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/15 18:20 |
| S5 | 33 | S4 and (plate or sheet or layer or film) same (hollow or empty) same (cylinder or tube or tubes or tubular or tubing or pipe or pipes or piping) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/15 18:22 |
| S6 | 185 | 148/521.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/16 08:59 |
| S7 | 3355 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/16 09:05 |
| S8 | 107 | S7 same (plate or sheet or layer or film) same (cylinder or tube or tubes or tubular or tubing or pipe or pipes or piping) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/16 09:05 |

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|-----|-----|--|---|-----|----|---------------------|
| S9 | 128 | resistance near5 weld\$4 same (friction or frictional) near5 (bond\$5 or weld\$5 or join or joins or joined or joining or processing) same (common or known or obvious) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/16 09:34 |
| S10 | 96 | resistance near5 (bond\$5 or weld\$5 or join or joins or joined or joining or processing) with (friction or frictional) near5 (bond\$5 or weld\$5 or join or joins or joined or joining or processing) same (common or known or obvious) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/16 09:34 |
| S11 | 41 | resistance near5 (bond\$5 or weld\$5 or join or joins or joined or joining or processing) with (friction or frictional) near5 (bond\$5 or weld\$5 or join or joins or joined or joining or processing) with (common or known or obvious) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/16 09:35 |
| S12 | 11 | "4,949,895" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/29 15:37 |
| S13 | 276 | friction near5 stir near5 weld\$4 with (advantage or advantages or advantageous) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/29 15:40 |
| S14 | 195 | friction near5 stir near5 weld\$4 near5 (advantage or advantages or advantageous) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/29 15:41 |

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|-----|-------|---|---|-----|----|---------------------|
| S15 | 185 | friction near2 stir near2 weld\$4 near5 (advantage or advantages or advantageous) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/29 15:41 |
| S16 | 43 | friction near2 stir near2 weld\$4 with (advantage or advantages or advantageous) with (wear or strength) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/07/29 15:46 |
| S17 | 6 | ("4949895" "5794835" "6328261").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 13:14 |
| S18 | 39463 | ((run near2 (on or off)) same ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 13:46 |
| S19 | 39495 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 13:51 |
| S20 | 3437 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) same (run near (on or off)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 13:51 |

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|-----|------|--|---|-----|----|---------------------|
| S21 | 3429 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing)) same (run near (on or off)) and (run near (on or off)) same (tab or tabs or finger or fingers or projection or protrusion or extension)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:06 |
| S22 | 3429 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing)) same (run near (on or off)) and (run near (on or off)) with (tab or tabs or finger or fingers or projection or protrusion or extension)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:11 |
| S23 | 3429 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing)) same (run near (on or off)) and (run near (on or off)) with (tab or tabs or finger or fingers or projection or protrusion or extension) and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:12 |
| S24 | 3429 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing)) same (run near (on or off)) and (run near (on or off)) with (tab or tabs or finger or fingers or projection or protrusion or extension) and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular) and (plate or sheet or film or layer)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:13 |

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|-----|------|--|---|-----|----|---------------------|
| S25 | 3429 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing)) same (run near (on or off)) and (run near (on or off)) with (tab or tabs or finger or fingers or projection or protrusion or extension) and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular) and (plate or sheet or film or layer) and "228".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPC; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:14 |
| S26 | 4 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing))) same (run near (on or off)) and (run near (on or off)) with (tab or tabs or finger or fingers or projection or protrusion or extension) and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular) and (plate or sheet or film or layer) and "228".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPC; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:18 |
| S27 | 20 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing))) same (run near (on or off)) | US-PGPUB; USPAT; USOCR; FPRS; EPC; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:20 |
| S28 | 93 | ("2219907" "3228267" "3550229" "4103138" "5460317").PN. OR ("5794835").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/10/01 14:28 |
| S29 | 82 | S28 and S19 | US-PGPUB; USPAT; USOCR; FPRS; EPC; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:29 |

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|-----|-------|--|---|-----|----|---------------------|
| S30 | 5 | S29 and (run near (on or off)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:38 |
| S31 | 6 | (US-5794835-\$ or US-7270257-\$ or US-7225968-\$ or US-6352193-\$ or US-6325273-\$ or US-5460317-\$), did. | USPAT | ADJ | ON | 2008/10/01 14:46 |
| S32 | 6 | S31 and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:46 |
| S33 | 6 | S31 and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) and (run near (on or off)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:47 |
| S34 | 6 | S31 and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) and (run near (on or off)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:47 |
| S35 | 39495 | ((((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:56 |

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|-----|-------|--|---|-----|----|---------------------|
| S36 | 21909 | S35 and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:57 |
| S37 | 10003 | S35 and (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) same (plate or sheet or film or layer) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:57 |
| S38 | 9797 | S35 same (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:58 |
| S39 | 3074 | S35 same (cylinder or cylindrical or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) same (plate or sheet or film or layer) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:58 |
| S40 | 404 | S39 and "228".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:59 |
| S41 | 2 | S40 and S31 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 14:59 |

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|-----|------|---|---|-----|----|---------------------|
| S42 | 2494 | S35 same (cylinder or tube or tubes or tubing or pipes or piping or pipe or tubular or hollow) same (plate or sheet or film or layer) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 15:00 |
| S43 | 323 | S42 and "228".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 15:00 |
| S44 | 2 | S43 and tanaka.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/01 15:13 |
| S45 | 1 | "10537180" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 10:23 |
| S46 | 0 | ("2004/0041005").URPN. | USPAT | ADJ | ON | 2008/10/02 10:53 |
| S47 | 0 | ("2006/0081683").URPN. | USPAT | ADJ | ON | 2008/10/02 10:54 |
| S48 | 6 | "2001088504" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 11:00 |

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|-----|------|--|---|-----|----|---------------------|
| S49 | 4 | "10305373" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 11:01 |
| S50 | 398 | seam with (((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 11:06 |
| S51 | 112 | S50 same (tube or tubes or tubing or tubular or pipe or pipes or piping or cylinder or hollow or roll) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 11:07 |
| S52 | 4 | "03254359" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 11:25 |
| S53 | 4 | "9933594" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 14:52 |
| S54 | 1493 | 228/144,152,173.6,5.7,17.5.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 15:44 |

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|-----|------|--|---|-----|----|---------------------|
| S55 | 551 | S54 and (protrusion or protuberance or extension or projection or thickening\$4 or end near5 (portion or region or area or section)) | US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/02 15:46 |
| S56 | 7 | ("2148714").URPN. | USPAT | ADJ | ON | 2008/10/02 16:16 |
| S57 | 4 | (US-20020020164-\$).did. or (US-5794835-\$).did. or (US-2148714-\$).did. or (WO-9933594-\$).did. | US-PGPUB; USPAT; USOCR; EPO | ADJ | ON | 2008/10/06 10:55 |
| S58 | 2 | S57 and (thickness or thicknesses) | US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/06 10:55 |
| S59 | 1031 | 228/112.1,2.1.ccls. | US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2008/10/06 14:01 |
| S60 | 1 | (US-5794835-\$).did. | USPAT | ADJ | ON | 2009/02/27 13:36 |
| S61 | 1 | S60 and (grip\$4 or hold\$4 or grab\$4 or secur\$4) | US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/27 13:36 |

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|-----|-------|--|---|-----|-----|---------------------|
| S62 | 2555 | 228/144,152,173.6,5.7,17.5,112.1,2.1.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/02/27 14:32 |
| S63 | 40606 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond \$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/03/02 10:39 |
| S64 | 554 | S63 and sato.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/03/02 10:39 |
| S65 | 1 | S63 and sato.in. and megha near2 mehta | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/03/02 10:40 |
| S66 | 41 | S63 and sato.in. and obara.as. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/03/02 10:41 |
| S67 | 2 | ((("5893507") or ("6199745")).PNL | USPAT; USOCR | OR | OFF | 2009/03/02 10:48 |

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| S68 | 685084 | (tabs or protrusions or fingers) same (grip\$4 or hold\$4 or secur\$4 or align\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/09 13:38 |
| S69 | 41602 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/09 13:38 |
| S70 | 4024 | S68 and S69 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/09 13:38 |
| S71 | 13762 | ((friction or frictional\$5) near4 (stir or stirs or stirred or stirring or churn\$5 or agitat\$5) with (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) or ((friction or frictional\$5) near7 (bond\$5 or weld\$5 or join or joins or joined or joining or processing)) same (cylinder or tube or tubes or tubing or pipe or pipes or piping or tubular or pipeline or cylindrical or hollow or circular or circle) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/09 13:39 |
| S72 | 1232 | S68 and S71 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/09 13:40 |

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|-----|--------|--|---|-----|----|---------------------|
| S73 | 11691 | (tabs or protrusions or fingers or projection or project \$4) with (grip\$4 or hold\$4 or secur\$4 or align\$4) and ("219".clas. or (arc near5 weld\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/13 13:37 |
| S74 | 137900 | weld\$4 with (sheet or plate or film or foil or layer) same (tube or tubes or tubular or tubing or pipe or pipes or piping or pipeline or cylinder or cylindrical or hollow) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/13 13:40 |
| S75 | 1497 | S73 and S74 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/13 13:41 |
| S76 | 2518 | (tabs or protrusions or fingers or projection or project \$4) with (clamp\$4) and ("219".clas. or (arc near5 weld \$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/13 14:18 |
| S77 | 471 | S76 and S74 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/13 14:18 |
| S78 | 23 | "6325273" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/13 14:39 |

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|-----|------|---|---|-----|-----|---------------------|
| S79 | 1 | ("6325273").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/13 14:40 |
| S80 | 1 | ("4729502").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/14 12:17 |
| S81 | 5 | ("0537276").PN. OR ("4729502").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:18 |
| S82 | 5256 | 29/33d,33t,dig41.ccls. or 138/156-171,151.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:19 |
| S83 | 532 | S82 and (tab or finger or projection) and (hold\$4 or grip\$4 or secur\$4 or align\$4) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:20 |
| S84 | 246 | S82 and (tab or finger or projection) with (hold\$4 or grip\$4 or secur\$4 or align\$4) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:20 |
| S85 | 149 | S82 and (tab or finger or projection) with (hold\$4 or grip\$4 or secur\$4 or align\$4) same (tube or tubes or tubing or tubular or pipe or pipes or piping or pipeline or cylinder or cylindrical or hollow) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:21 |
| S86 | 266 | S82 and (tab or finger or projection) same (hold\$4 or grip\$4 or secur\$4 or align\$4) same (tube or tubes or tubing or tubular or pipe or pipes or piping or pipeline or cylinder or cylindrical or hollow) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:31 |
| S87 | 117 | S86 not S85 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/14 12:32 |
| S88 | 1684 | 138/109.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/16 08:17 |
| S89 | 116 | S88 and (tab or finger or projection) same (hold\$4 or grip\$4 or secur\$4 or align\$4) same (tube or tubes or tubing or tubular or pipe or pipes or piping or pipeline or cylinder or cylindrical or hollow) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/07/16 08:18 |

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|-----|---|-----------------|---|-----|-----|---------------------|
| S90 | 1 | ("4729502").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/07/16 08:34 |
| S91 | 1 | S90 and T | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/07/16 08:34 |

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